

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



**OFFICE OF  
AIR AND RADIATION**

September 20, 2005

Mr. Kip Sherwood  
Product Manager, Fixtures  
Technical Consumer Products, Inc. (TCP)  
300 Lena Drive  
Aurora, OH 44202

Dear Kip:

EPA has reviewed the Testing Documentation submitted by TCP for the Line Voltage Socket (LVS) with a self-ballasted pin-based lamp, model number 33123SP, and determined that it meets the Version 4.0 Residential Light Fixture (RLF) specifications indicated below. TCP may provide this Letter of Qualification to other manufacturers interested in qualifying fixtures for ENERGY STAR that use the same model number 33123SP. Those manufacturers may, in turn, submit a copy of this Letter in lieu of lab testing reports for the given performance characteristics. Please note that this Letter of Qualification only covers the performance requirements in the table below.

Components: Ballast(s)      Manufacturer TCP      Model # 33123SP  
Lamp(s)      Manufacturer TCP      Model # 33123SP

# of Lamps: <u>1</u>	Indiv. Listed Lamp Wattage: <u>23</u>	Lamp Type: <u>CFL</u>	Lamp Size: <u>T3</u>	Ballast Type:      Electronic
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Performance Characteristic	Test Result		Meets ENERGY STAR Specification? (Yes/No)
Combined Lamp & Ballast Requirements:			
System Efficacy	1740	Total Lumen Output	Yes
	24.3	Input Power (watts)	Yes
	71.55	Lumens Per Watt	Yes
Lamp Requirements:			
Lamp Life	10,000	Average Rated Hours	Yes
Lumen Maintenance	82.6%	% of initial lumens at 40% rated lamp life (4,000 hour minimum)	Yes
Color Rendering Index	81	CRI	Yes
Lamp Correlated Color Temp.	2700K	Target CCT (degrees Kelvin)	Yes
	100%	% of samples fall within 7-step Mac Adam ellipse	
Lamp/Lampholder Compatibility	GU24-1	ANSI-IEC Designated Lamp Base Type	Yes
	Yes OR No	ANSI-IEC Standardized Lamp	Yes
	___ OR N/A	ANSI-IEC Lamp Standard Data Sheet Number	
Lamp Labeling Requirement	☒	Lamp labeling requirement is met	Yes

<b>Ballast Requirements:</b>			
Lamp Start Time	<u>16</u>	Milliseconds	Yes
Power Factor	<u>.566</u>		Yes
Lamp Current Crest Factor	<u>1.35</u>		Yes
Maximum Recommended Ballast Case Temperature During Normal Operation Inside a Fixture	<u>85</u>	Degrees Celsius	Yes
Electromagnetic and Radio Frequency Interference	<input checked="" type="checkbox"/>	Ballast meets FCC requirements for consumer use	Yes
Ballast Frequency	<u>50.00</u>	kHz	Yes
Transient Protection	<input checked="" type="checkbox"/>	Ballast meets transient protection requirements	Yes
End of Life Protection (Only required for ballasts with lamps sized T5 & smaller)	<u>Yes</u> OR N/A	Testing requirements are met	Yes
	<u>1</u> OR N/A	Maximum number of lamps shut down when lamp end of life occurs	
Dimming	<input type="checkbox"/>	3-Way Switching	Yes
	<input type="checkbox"/>	Continuous Dimming	
Safety – Ballasts and “Non Edison base Fluorescent Adapters”	<u>Yes</u> OR N/A	Listed for Safety	RLF or ceiling fan partner using this form in lieu of testing documentation must submit appropriate safety report for portable or hardwired fixtures.
Line Voltage Socket (LVS) Standard Design	This platform <b>does</b> use the twist-and-lock LVS standard Design		Yes
Line Voltage Socket (LVS) Standard Design with Self-Ballasted Pin-Based Lamp	This platform <b>does</b> ship with self-ballasted pin-based lamps (i.e., integrated lamp and ballast) that use the twist-and-lock LVS standard design		Yes

As a reminder, the approved model number 33123SP does not receive the ENERGY STAR label and can not be promoted as an ENERGY STAR approved product and can not carry the ENERGY STAR logo. Rather, you may promote this approved platform as an acceptable alternate to providing test reports with Residential Light Fixture submittals for ENERGY STAR qualification.

Any RLF or ceiling fan partner submitting this Letter of Qualification in lieu of laboratory testing reports is still responsible for completing and signing a Qualified Product Information (QPI) form for the applicable lamp/ballast combination, and submitting any required test data not covered by this Letter.

Please contact Nick Germana at (703) 218-2535, or myself at (202) 343-9397 with any questions. Thank you for your continued support.

Sincerely,



David Shiller, Product Manager  
ENERGY STAR for Residential Light Fixtures